

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
17 February 2011 (17.02.2011)(10) International Publication Number
WO 2011/019956 A3

(51) International Patent Classification:

A61K 9/16 (2006.01) A61K 9/50 (2006.01)
A61K 9/20 (2006.01) A61K 31/4375 (2006.01)
A61K 9/28 (2006.01) A61P 25/14 (2006.01)

(21) International Application Number:

PCT/US2010/045375

(22) International Filing Date:

12 August 2010 (12.08.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PCT/GB2009/051013
12 August 2009 (12.08.2009) GB
12/540,144 12 August 2009 (12.08.2009) US

(71) Applicant (for all designated States except US): BIO-VAIL LABORATORIES INTERNATIONAL (BARBADOS) S.R.L. [BB/BB]; Welches, Christ Church, BB17154 (BB).

(72) Inventors; and

(71) Applicants: ERADIRI, Okpananabufa [US/US]; 43616 Winthrop Court, Ashburn, Virginia 20147 (US).
LAL, John CK [CA/US]; 18534 Pineview Square, Leesburg, Virginia 20176 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BUFFIELD, Andrew John [GB/GB]; 19 Mandelyns, Northchurch, Berkhamsted, Hertfordshire HP4 3XH (GB). JACKSON, Graham [GB/BB]; 7 Coral Lane Drive, Atlantic Shores, Christ Church, BB17154 (BB). FRISBEE, Steven E. [US/US]; 2710 Soapstone Dr., Reston, Virginia 20191 (US).

(74) Agents: PERDOK SHONKA, Monique M. et al.; Schwegman, Lundberg & Woessner, PA, P.O. Box 2938, Minneapolis, Minnesota 55402 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,

[Continued on next page]

(54) Title: PHARMACEUTICAL COMPOSITIONS WITH TETRABENAZINE

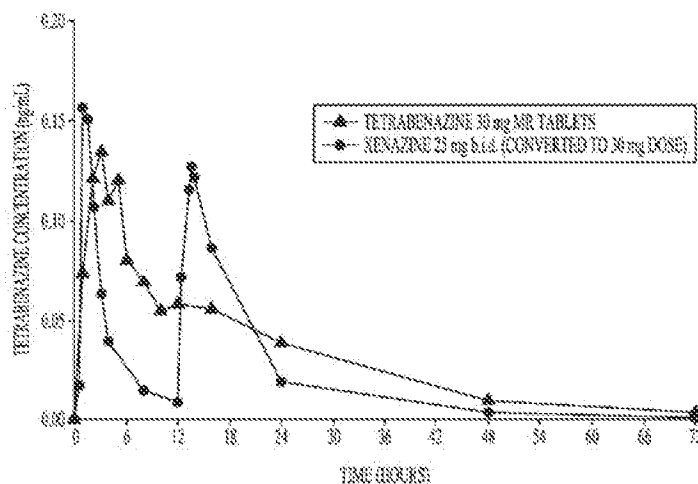


FIG. 7

(57) Abstract: The present invention provides for a pharmaceutical composition that includes tetrabenzazine and a release-retarding agent; and a method of treating a hyperkinetic movement disorder (e.g., Huntington's disease, chorea associated with Huntington's disease, hemiballismus, senile chorea, tic disorders, tardive dyskinesia, myoclonus, dystonia and/or Tourette's syndrome). The method includes administering an effective amount of the pharmaceutical composition, for a period of time effective to treat the hyperkinetic movement disorder.



EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

Published:

(88) Date of publication of the international search report:

5 October 2011

— with international search report (Art. 21(3))

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2010/045375

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61K9/16 A61K9/20 A61K9/28 A61K9/50 A61K31/4375
 ADD. A61P25/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2007/007105 A1 (CAMBRIDGE LAB IRELAND LTD [IE]; TRIDGETT ROBERT [GB]; FILLOUX THIERRY) 18 January 2007 (2007-01-18) the whole document -----	1-67
A	WO 2006/069030 A1 (COLLEGIUM PHARMACEUTICAL INC [US]; RARIY ROMAN V [US]; HEFFERNAN MICHA) 29 June 2006 (2006-06-29) the whole document -----	1-67
A	WO 2008/079404 A2 (SPHERICS INC [US]; NANGIA AVINASH [US]; JACOB JULES [US]; YEH JAMES [U]) 3 July 2008 (2008-07-03) the whole document ----- -/-	1-67

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

5 August 2011

Date of mailing of the international search report

16/08/2011

Name and mailing address of the ISA/

European Patent Office, P.B. 5816 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040,
 Fax: (+31-70) 340-3016

Authorized officer:

Glikman, J

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2010/045375

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	WO 2010/018408 A2 (BIOVAIL LAB INTERNAT BARBADOS [BB]; DUFFIELD ANDREW JOHN [GB]; JACKSON) 18 February 2010 (2010-02-18) the whole document -----	1-67

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2010/045375

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2007007105 A1	18-01-2007	AT 409481 T	15-10-2008
		AU 2006268098 A1	18-01-2007
		CA 2615077 A1	18-01-2007
		CN 101282726 A	08-10-2008
		DK 1885363 T3	08-12-2008
		EP 1885363 A1	13-02-2008
		EP 2027861 A1	25-02-2009
		ES 2314931 T3	16-03-2009
		HK 1111085 A1	05-06-2009
		HR 20080677 T3	28-02-2009
		JP 2009501202 A	15-01-2009
		KR 20080030666 A	04-04-2008
		NZ 565522 A	30-04-2010
		PT 1885363 E	08-01-2009
		SI 1885363 T1	28-02-2009
		US 2008319000 A1	25-12-2008
		ZA 200800905 A	28-04-2010
WO 2006069030 A1	29-06-2006	AU 2005319367 A1	29-06-2006
		CA 2590802 A1	29-06-2006
		CN 101132777 A	27-02-2008
		EP 1833467 A1	19-09-2007
		JP 2008524332 A	10-07-2008
		KR 20070087678 A	28-08-2007
		US 2008200508 A1	21-08-2008
WO 2008079404 A2	03-07-2008	AU 2007338631 A1	03-07-2008
		CA 2673511 A1	03-07-2008
		EP 2063867 A2	03-06-2009
		US 2010316712 A1	16-12-2010
WO 2010018408 A2	18-02-2010	GB 2462611 A	17-02-2010
		US 2010055133 A1	04-03-2010